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AMENDMENT MEMORANDUM

TO: RECIPIENTS OF THE FLORIDA - REGION 9 PLAN FOR PUBLIC SAFETY
RADIO COMMUNICATIONS

DATE: MARCH 23, 1992

FROM: JOHN R. DISALVO, P.E., CHAIRMAN, FLORIDA REGION COMMITTEE

SUBJECT: AMENDMENT #5 TO THE FLORIDA - REGION 9 PLAN

Enclosed with this memorandum is Amendment #5 of the Plan which was approved by the FCC on March 9, 1992. This amendment replaces Table I (Region Committee Members), and replaces portions of Tables III and IV (channel allotments) affected by the Martin County and Dade County allotment changes requested on their applications received during our previous filing window.

On each revised page (except in Tables III & IV), a vertical bar (|) in the left margin identifies lines of text modified since the previous issue of that page.

REMOVE AND DISCARD PAGES LISTED BELOW

INSERT ENCLOSED PAGES LISTED BELOW

2-3 (AMEND. #4).....	2-3 (AMEND. #5)
4-13 & 4-14 (AMEND. #4).....	4-13 & 4-14 (AMEND. #5)
4-18 (AMEND. #4).....	4-18 (AMEND. #5)
4-22 & 4-23 (AMEND. #4).....	4-22 & 4-23 (AMEND. #5)
4-25 thru 4-36 (AMEND. #4).....	4-25 thru 4-36 (AMEND. #5)
4-38 thru 4-44 (AMEND. #4).....	4-38 thru 4-44 (AMEND. #5)
4-47 (AMEND. #4).....	4-47 (AMEND. #5)

After making these changes, please file this memorandum behind the Table of Contents section of your Plan. If you have any questions, please call me or Bob Ferrell at (904) 488-3866, SUNCOM 278-3866.

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Enclosure: Amendment #5 (26 pages)

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AMENDMENT MEMORANDUM

TO: RECIPIENTS OF THE FLORIDA - REGION 9 PLAN FOR PUBLIC
SAFETY RADIO COMMUNICATIONS

FROM: JOHN R. DISALVO, P.E., CHAIRMAN, FLORIDA REGION COMMITTEE

DATE: JUNE 9, 1992

SUBJECT: AMENDMENT #6 TO THE FLORIDA - REGION 9 PLAN

Enclosed with this memorandum is Region Plan Amendment #6 which was approved by the FCC on June 4, 1992. This amendment replaces 2 pages of Table III and all of Table IV reflecting allotments approved for the School Board of Palm Beach County, Palm Beach County Solid Waste Authority, City of Palm Beach Gardens, Pinellas County, and Sarasota County. In addition, all Application Benchmark Dates of May 7, 1992 are extended to September 8, 1992. The new date has been changed on the enclosed pages 4-19 and 4-20 of Table III. Please make a pen & ink change reflecting the new date for all other Table III pages.

REMOVE AND DISCARD
PAGES LISTED BELOW

INSERT ENCLOSED
PAGES LISTED BELOW

4-19 and 4-20 (AMEND. #4) 4-19 and 4-20 (AMEND. #6)
4-22 thru 4-48 (all). 4-22 thru 4-40 (AMEND. #6)

After making these changes, please file this memorandum behind the Table of Contents section of your Plan. If you have any questions, please call me or Bob Ferrell at (904) 488-3866, SUNCOM 278-3866.

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Enclosure: Amendment #6

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AMENDMENT MEMORANDUM

TO: RECIPIENTS OF THE FLORIDA - REGION 9 PLAN
FOR PUBLIC SAFETY RADIO COMMUNICATIONS

FROM: MARK PALLANS, CHAIRMAN, FLORIDA REGION COMMITTEE

DATE: OCTOBER 4, 1993

SUBJECT: AMENDMENT #7 TO THE FLORIDA - REGION 9 PLAN

Enclosed with this memorandum is Region Plan Amendment #7 which was approved by the FCC on September 23, 1993. This amendment replaces the tables of channel allotments (Tables III and IV) in accordance with the statewide re-allotment of channels completed earlier this year. All POOLED and DEDICATED channels have a new Application Benchmark Date of 9/23/94.

REMOVE AND DISCARD
PAGES LISTED BELOW

INSERT ENCLOSED
PAGES LISTED BELOW

4-11 thru 4-40 4-11 thru 4-37 (AMEND. #7)

After making these changes, please file this memorandum behind the Table of Contents section of your Plan. If you have any questions, please call me at (305) 596-8941, SUNCOM 437-8941.

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Enclosure: Amendment #7

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AMENDMENT MEMORANDUM

TO: RECIPIENTS OF THE FLORIDA - REGION 9 PLAN FOR PUBLIC SAFETY RADIO COMMUNICATIONS

FROM: MARK PALLANS, CHAIRMAN, FLORIDA REGION COMMITTEE

DATE: JUNE 16, 1994

SUBJECT: AMENDMENT #8 TO THE FLORIDA - REGION 9 PLAN

Enclosed with this memorandum is a complete copy of the Region Plan through Amendment #8 (less appendices). Amendment #8 was approved by the FCC on March 30, 1994. Significant changes in this amendment include:

- additional provisions about coverage equivalency between Mutual Aid and non-mutual aid systems
- requirements that dispatch centers which are not primary control points for Mutual Aid repeaters must have either RF or wireline control to the Mutual Aid channel repeaters
- provisions to improve the flexibility and usefulness of Mutual Aid Channels following major disaster situations.
- clarifying that the State does not intend to act as primary control center for any Mutual Aid channels
- examples of proper and improper use of Mutual Aid Channels
- clarifying the role and responsibilities of Network Control Centers for Mutual Aid Channels
- changing the Slow Growth construction time from 3 to 5 years
- requiring added justification to use conventional channels

If you have any questions, please call me at (305) 596-8941, SUNCOM 437-8941.

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Enclosure: Florida - Region 9 Plan For Public Safety Radio Communications (Amendment #8)

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AMENDMENT MEMORANDUM

TO: RECIPIENTS OF THE FLORIDA - REGION 9 PLAN FOR PUBLIC SAFETY RADIO COMMUNICATIONS

FROM: MARK PALLANS, CHAIRMAN, FLORIDA REGION COMMITTEE

DATE: AUGUST 30, 1995

SUBJECT: AMENDMENT #9 TO THE FLORIDA - REGION 9 PLAN

Enclosed with this memorandum is Region Plan Amendment #9 which was approved by the FCC on June 27, 1995. Changes contained within this amendment include:

- New tables of channel allotments (Tables IV and V), including updated Benchmark dates
- Updated addresses, phone numbers and references to FCC Form 600
- Procedure for submittal of FRIP (Florida Region Interference Program) reports on floppy disk rather than hardcopy

REMOVE AND DISCARD PAGES LISTED BELOW

iv & v
1-3 thru 2-3
4-8 thru 4-35
5-3 & 5-4
6-1 thru 6-5

INSERT ENCLOSED PAGES LISTED BELOW

iv & v
1-3 thru 2-3
4-8 thru 4-38
5-3 & 5-4
6-1 thru 6-5

After making these changes, please file this memorandum just ahead of page 1-1 of your Plan. If you have any questions, please call me at (305) 596-8941, SUNCOM 437-8941.

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Enc: Florida - Region 9 Plan For Public Safety Radio Communications (Amendment #9)

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AMENDMENT MEMORANDUM

TO: RECIPIENTS OF THE FLORIDA - REGION 9 PLAN FOR PUBLIC SAFETY RADIO COMMUNICATIONS

FROM: MARK PALLANS, CHAIRMAN, FLORIDA REGION COMMITTEE

DATE: FEBRUARY 17, 1997

SUBJECT: AMENDMENT #10 TO THE FLORIDA - REGION 9 PLAN

Enclosed with this memorandum is a complete copy of the Region Plan through Amendment #10 (pending FCC approval), less appendices. Until this revised Plan is approved by the Federal Communications Commission, applications will be processed by the Florida Region Committee per Amendment #10 as an exception to the current Plan (Amendment #9). Applications approved by the Committee will be subject to APCO and FCC action for the same. Changes contained within this amendment include:

- New tables of channel allotments (Tables IV and V), including Benchmark dates
- Updated names, addresses, and phone numbers for Florida Committee members
- Revised Section 4.5 (Allotment Process and Figure 2) to provide a continuously open filing window
- Addition of new requirements for Portable "Talkaround-only" Systems
- Further clarification of coverage equivalency for mutual-aid channels
- Reduced Terrain Profile Graph requirements

If you have any questions, please call me at (954) 761-5790.

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Enclosure: Florida - Region 9 Plan For Public Safety Radio Communications (Amendment #10)

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AMENDMENT MEMORANDUM

TO: RECIPIENTS OF THE FLORIDA - REGION 9 PLAN FOR PUBLIC SAFETY RADIO COMMUNICATIONS

FROM: MARK PALLANS, CHAIRMAN, FLORIDA REGION COMMITTEE

DATE: AUGUST 30, 1998

SUBJECT: AMENDMENT #11 TO THE FLORIDA - REGION 9 PLAN

Amendment #11 to the Region 9 Plan has been completed (pending FCC approval), less appendices. Copies can be obtained from the Internet at <http://www.state.fl.us/dms/tools/plnpl/r9webpg.html> or from the Florida Bureau of Wireless Communications by emailing wellsc@dms.state.fl.us or calling (850) 922-7426. Until this revised Plan is approved by the Federal Communications Commission, applications will be processed by the Florida Region Committee per Amendment #11 as an exception to the current Plan (Amendment #10). Applications approved by the Committee will be subject to APCO and FCC action for the same. Changes contained within this amendment include:

- New tables of channel allotments (Tables IV and V), including Benchmark dates
- Updated information for Florida Committee members (Table I)
- 1-year Benchmark replaced with a 2-year Benchmark in Section 4.7, and present benchmarks extended 1 year
- Revises Section 3.2 (Region Committee Operating Procedures) to promote a quorum for Region Committee meetings
- Revised Section 5.3.4 (Network Control Centers) to include the Florida Bureau of Wireless Communications
- Revised Section 5.3.5 (Assignment of Control) to improve statutory references and responsibilities
- Revised Section 5.3.6 (Technical Limitations on Mutual Aid Channels) to include prohibition on Telephone Interconnect and Radio Cross-Patching
- Revised Section 6.1 (General Application Requirements) to specify requirements for Mutual Aid applications
- Modifications throughout the Plan, primarily Block #11 or the Channel Allotment Process and Table II it references, to align it with the consolidation of radio services, Second Report and Order (FCC 97-61)

If you have any questions, please email me at MarkP@ci.ftlaud.fl.us or call (954) 761-5790.

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Enclosure: Florida - Region 9 Plan For Public Safety Radio Communications (Amendment #11)

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AMENDMENT MEMORANDUM

TO: RECIPIENTS OF THE FLORIDA - REGION 9 PLAN FOR PUBLIC SAFETY RADIO COMMUNICATIONS

FROM: MARK PALLANS, CHAIRMAN, FLORIDA REGION COMMITTEE

DATE: SEPTEMBER 30, 1999

SUBJECT: AMENDMENT #12 TO THE FLORIDA - REGION 9 PLAN

Amendment #12 to the Region 9 Plan has been completed (pending FCC approval), less appendices. Copies can be obtained from the Internet at <http://www.state.fl.us/dms/tools/plnpl/r9webpg.html> or from the Florida Bureau of Wireless Communications by emailing wellsc@dms.state.fl.us or calling (850) 922-7426. Until this revised Plan is approved by the Federal Communications Commission, applications will be processed by the Florida Region Committee per Amendment #12 as an exception to the current Plan (Amendment #11). Applications approved by the Committee will be subject to APCO and FCC action for the same. Substantive changes contained within this amendment include:

- New tables of channel allotments (Tables IV and V), including Benchmark dates
- Updated information for Florida Committee members (Table I)
- Revised Section 4.5 to define simultaneous receipt of two or more applications.
- Revised Section 5.3.1(B) for more emphasis on coverage equivalency.
- Added a new Section 5.4.6 to address Radio Frequency Control Stations

If you have any questions, please email me at MarkP@ci.flaud.fl.us or call (954) 761-5790.

MP:CWW:eh:frpm#12.doc

Enclosure: Florida - Region 9 Plan For Public Safety Radio Communications (Amendment #12)

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(821-824/866-869 MHz Planning)



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AMENDMENT MEMORANDUM

TO: RECIPIENTS OF THE FLORIDA – REGION 9 PLAN FOR PUBLIC SAFETY RADIO COMMUNICATIONS

FROM: RAY CARLSON, CHAIRMAN, FLORIDA REGION COMMITTEE

DATE: October 6, 2004

SUBJECT: AMENDMENT #13 TO THE FLORIDA – REGION 9 PLAN

Amendment #13 to the Region 9 Plan has been completed (pending FCC approval), less appendices. Copies can be obtained from the website <http://sto.myflorida.com/safety/r9webpg.htm> or from the State Technology Office by emailing jean-pierre.saliba@myflorida.com or calling (850) 922-7418. Until this revised Plan is approved by the Federal Communications Commission, applications will be processed by the Florida Region Committee per Amendment #13 as an exception to the current Plan (Amendment #12). Applications approved by the Committee will be subject to FCC action for the same. Substantive changes contained within this amendment include:

- New tables of channel allotments (Tables IV and V), including Benchmark dates.
- Updated information for the Florida Committee members (Table I)
- Revised Section 5.3.8 to include the Mutual Aid Operational Policy and Procedure.
- Added section 6.3 to outline the procedure for applying for a Special Temporary Authority (STA).

If you have any questions, please email me at carlsonr@pbso.org or call (561) 688-3514

RC:LS:frprm#13.doc

Enclosure: Florida –Region 9 Plan For Public Safety Radio Communications (Amendment # 13)

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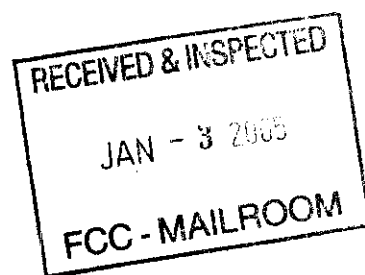
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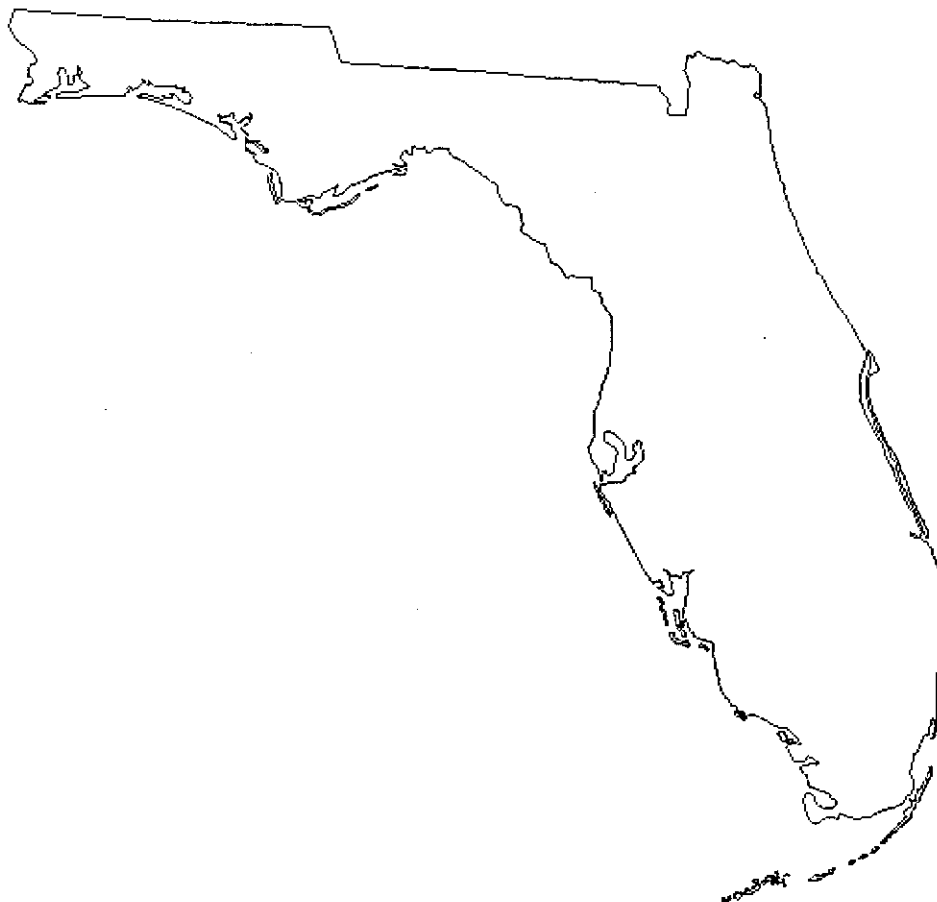
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FLORIDA - REGION 9



PLAN FOR PUBLIC SAFETY RADIO COMMUNICATIONS (Amendment #13)

6.0 APPLICATION PROCEDURES

6.1 General Application Requirements

Applications for frequencies in the 821-824/866-869 MHz band shall be prepared and submitted in accordance with applicable FCC Rules, frequency coordinators procedures, as well as with requirements of the Florida Region Plan. For portable "talkaround-only" systems, applications shall comply with only Sections 6.1.1, 6.1.2, 6.1.3, 6.2.2 and 6.2.2(C). Mutual Aid-only applications shall be excluded from the requirements of sections 6.1.3(D, E, G, H, & I) and 6.2.2.

6.1.1 Where to Submit Applications

Completed applications shall be submitted to the Chairman of the Florida Region Committee or the Chairman of the Local Subregion Committee (if established) who will then review and forward applications to the Region Committee Chairman. Refer to the list of Chairmen's names and addresses in Table I, page 2-3.

Information regarding active Local Subregion Committees may be obtained from the appropriate Subregion Chairman or from the Florida State Technology Office. Applications received by the Region Committee which show no evidence of Subregion review (where required) shall be forwarded to the Local Subregion Committee without further action.

Following application approval by the Region Committee, a copy of the application shall be retained by the Florida State Technology Office. The original application will then be returned to the applicant with instructions to send the application to an approved FCC Frequency Coordinator accompanied by payment of the required fees. **DO NOT send any payment with the initial application to the Subregion or Region Committee.**

6.1.2 Forms to be Used

Applications shall be submitted using the latest versions of FCC Form 601 "Application for Wireless Telecommunications Bureau Radio Service Authorization", and any supplementary form required by the FCC certified Frequency Coordinator. In addition each application shall include all supplementary documentation and exhibits as required by this Region Plan.

Copies of the necessary forms and FCC instructions, as well as general assistance in completing applications may be obtained by written request to Jean-Pierre Saliba, Supervisor, State Technology Office, 4030 Esplanade Way, Suite 315K, Tallahassee, Florida, 32399-0950.

6.1.3 Supplemental Information to be Submitted

Applications submitted shall include all of the following information. All information shall be clearly contained within 0.75 (3/4) inch margins of lettersize (8 1/2" x 11") paper, or folded to an 8 1/2" x 11" size.

A. A Statement of Need for utilizing 821-824/866-869 MHz frequencies under the jurisdiction of this Plan.

- B. A showing that a budget commitment has been made by the jurisdiction responsible for implementation of the proposed system.
- C. A detailed schedule of implementation milestones by month and fiscal year showing estimated dates of procurement activity and system implementation including dates and quantities of mobile station implementation. If a "slow growth" construction schedule is needed, applications must clearly state the phrase "*SLOW GROWTH*" on the application Form 601 Schedule H item 8 (see Section 5.6). If a station construction or loading schedule longer than that allowed by this Region Plan and FCC Rules is required, the application must include a Request for Waiver³⁹ for such an additional extension of time.
- D. For conventional (non-trunked) systems, a statement explaining why the proposed system cannot or should not be on a lower band or consolidated with other systems into a more spectrum-efficient trunked system covering the same or larger geographic area.
- E. If a proposed conventional (non-trunked) channel is to be used for mobile data, automatic vehicle location, or other non-voice signaling, explain why the proposed operation cannot or should not utilize lower-band frequencies.
- F. An explanation of implementation and operational plans to establish compliance with the Mutual Aid Channel requirements of Section 5.3 of this Plan.
- G. An explanation as to how system interoperability will be achieved with other public safety and special emergency services in other bands, particularly via long distance radio communications for emergency management purposes such as amateur radio, satellite communications, and long-range emergency preparedness communications systems in accordance with Section 5.1.5 of this Plan.
- H. A copy of each FCC license for all radio frequencies and callsigns, in all radio services, which are currently licensed to, or applied for by, the applicant within 40 miles (64 km) of each proposed site. This information must correlate to the plans for frequency relinquishment (or retention) in the following Section.
- I. For each existing (or applied for) frequency to be relinquished, the application must include a date upon which relinquishment is planned. For each existing (or applied for) frequency proposed to be retained, include a detailed showing of justification as to why the frequency must be retained rather than relinquished for use by other organizations.
- J. All Technical Information as required by the following Sections.

6.2 Technical Content of Applications

All applications shall contain all technical information required by the FCC and the frequency coordinator application forms as well as the following information necessary to fully describe, for Protected Service Area and Interference Contour purposes, the proposed system implementation. Some of the required information is

³⁹ See FCC Rules, § 90.151, "Requests for waiver".

automatically generated by the "Florida Region Interference Program" (see Section 5.4.5) and is included in the program's Final Report. Applicants may submit either a printout of the Final Report with their application, or a 3.5" " floppy disk containing the program files relating to the application. The Florida Region Interference Program contains a menu-selectable utility which will copy the necessary files to a floppy disk.

6.2.1 System Design Parameters

A. System Gains and Losses

Each application shall include a summary calculation of the system gains and losses totaling the Effective Radiated Power (ERP) of each particular antenna system in the direction of each of the eight cardinal radials (see Section 6.2.2.A.(1)), as well as in the direction of each licensed or allotted Co-Channel and Offset-Channel system.

B. Antenna System Parameters

- (1) Antenna System Vertical Profile Drawing - Each application for a new or modified antenna system shall include a vertical profile drawing showing the overall antenna structure (tower, building, or other structure) detailing the height of both the tip and center of radiation of the proposed antenna, the ground elevation, and clearly showing the overall height of any supporting building or other antenna structure. Heights shall be in terms of elevation above-mean-sea-level (AMSL), or elevation above-ground-level (AGL).
- (2) Horizontal Antenna Configuration - Each application shall include a plan-view drawing showing the antenna horizontal position relative to its supporting structure. For side-mounted antennas, clearly define the dimensions of the supporting structure (such as tower face width, tower leg diameter, etc.) as well as the relative position of the antenna and the distance (in wavelengths or feet) between the antenna and structures supporting it. Include any other data necessary to support the values shown in accordance with 6.2.1.B.(3).
- (3) Antenna Gain Patterns - For each proposed antenna, a horizontal gain pattern shall be included showing the antenna power-gain distribution throughout 360° in the horizontal plane expressed in decibels above the gain of a half-wave dipole. For "downtilt" antennas, a vertical gain pattern shall also be included showing the antenna power-gain distribution throughout 360° in the vertical plane expressed in decibels above the gain of a half-wave dipole. For side-mounted antennas, the gain patterns shall analytically or empirically take into account the size, shape and orientation of the antenna mounting structure.

6.2.2 Interference Studies

Each application shall contain interference studies demonstrating that the proposed stations will not cause harmful interference to existing or allotted co-channel or offset channel systems. Interference studies shall be prepared using the "Florida Region Interference Program" (see Section 5.4.5). This program will analyze proposed stations with respect to a database of all existing and allotted systems within Florida. Since this database is dynamically maintained, applicants are cautioned to insure that only the LATEST VERSION of the computer program is used in preparing applications.

For portable "talkaround-only" applications, a "Letter of Concurrence" from each affected primary agency will be accepted for co-channel operation in lieu of a satisfactory interference study. The letter shall be on the affected primary agency's letterhead, state concurrence for the applicant to operate on the affected agency's co-channel frequencies, list the frequencies, and be signed by the affected agency's authorized signer.

A. Terrain Profile Graphs

Each application shall contain terrain profile graphs accurately indicating topography and satisfying the following requirements, except that systems in Monroe, Dade, Collier, Broward, and Palm Beach Counties may assume an average terrain elevation of 10 feet above mean sea level; profile graphs within these counties are not required.

- (1) Cardinal Radials - Terrain profile graphs shall be drawn from the proposed station site extending to 20 miles for each 45 degrees of azimuth starting from True North.
- (2) Profile Distance Increments - The profile graph for each radial shall be plotted in uniform increments of distance and using the nearest contour interval available from topographic quadrangle maps having a scale of 1:24,000. The distance increment shall generally be not more than 1/4 mile, except that in cases of uniform or gently sloping terrain, the distance between the smallest contour on the topographic map should be used, even though relatively few points may be available. When a portion of the radial extends over water, that portion need not be included on the profile graph (or in computations of average terrain) unless the radial passes over United States land within 80 miles of the proposed station.
- (3) Profile Graph Format - Each profile graph shall be plotted on rectangular-coordinate paper or 4/3 curved-earth paper, and showing the distance in miles on the horizontal axis, and elevation in feet above mean sea level on the vertical axis. Each graph shall indicate the azimuth bearing relative to True North.
- (4) Sources of Topographic Data - Each profile graph shall indicate the source of topographic data used (name and latest revision date of quadrangle). In lieu of topographic maps, the profile elevation data, profile graphs, and computation of average terrain elevation may be computer generated from 30 arc-second or better terrain databases. The database used shall be clearly identified, and the data shall be processed for intermediate point values using an interpolation technique of at least linear accuracy. For determination of the height above mean sea level of the antenna site, as well as in cases of dispute, the most current U.S.G.S. 1:24,000 topographic data shall be used.

B. Calculations of Average Terrain Elevations

The average of terrain elevation values above mean sea level for elevation points between two and ten

miles for each of the eight cardinal radials shall be shown in the application, and shall be further averaged to produce a value for the Composite Average Terrain Elevation. The composite value determined shall be used for determination of the antenna height above average terrain (HAAT) which shall be entered on FCC Form 601, Schedule H, item 22.

Calculations of potential interstation interference shall use an antenna height above average terrain based on an average terrain elevation along the interstation radial obtained by cubic spline of the average terrain elevations of the 8 cardinal radials. The Florida Region Interference Program performs these calculations automatically.

C. Interference Calculations

For each pair of base stations studied (proposed and co-channel or adjacent offset-channel), the Florida Region Interference Program shall be used to determine:

- (1) The distance in miles and radial bearing in degrees relative to True North between the proposed station and the co-channel (or offset-channel) station.
- (2) The distance in miles from the proposed station to its Protected Service Area Contour (PSAC).
- (3) The distance in miles from the co-channel (or offset-channel) station to its PSAC.
- (4) The distance in miles from the proposed station to the PSAC of the co-channel (or offset-channel) station.
- (5) The distance from the co-channel (or offset-channel) station to the PSAC of the proposed station.
- (6) For the point of intersection of the interstation radial and each PSAC:
 - (a) The field strength of the undesired signal in dBu.
 - (b) The ratio (in decibels) of the desired and undesired field strengths.

D. Protected Service Area Contour Drawings

Each application shall include a map (or maps) showing the boundaries of the applicant's legal jurisdiction and the complete +40 dBu contour of the proposed station (or stations). Maps used for these drawings shall not be of greater scale than 1:500,000. Copy reduction is allowed provided the resulting scale is clearly indicated. As provided in Section 5.4, calculations involving a "downtilt" antenna shall utilize the antenna's *horizontal* gain for prediction of the contour.

6.3 Special Temporary Authority Procedure

If a situation occurs where a Special Temporary Authority (STA) must be obtained for operating a station, the following procedures will be applied. The process to obtain a license for using Region 9 channels will be governed by the same guidelines as outlined in the Region 9 Plan Sec. 6.0. General information concerning STA may be obtained at the following website:

<http://wireless.fcc.gov/publicsafety/sta.html>. The FCC strongly encourages the applicant to file electronically via the Universal Licensing System(ULS) website which can be access by the following URL:

<http://wireless.fcc.gov/uls/>.

6.3.1 STA Procedures

The Region 9 application for a STA must meet all the technical requirements as previously outline in this Plan. The application should be submitted to the Region 9 Chairman along with a cover letter explaining the need for the request.

Once the STA is approved, the Region Chairman will send the STA approval letter to the applicant. The applicant may file the approved STA either electronically or by mail. If the applicant files electronically, the website address is: <http://wireless.fcc.gov/uls/>.

The Region 9 approval letter should be attached with the completed FCC Form 601 application. If the applicant files by the mail, the completed FCC Form 601 should be submitted to the following address:

Federal Communications Commission
Wireless Bureau Applications
P. O. Box 358130
Pittsburgh, PA 15251-5130

Note, the STA application goes directly to the FCC, not an approved FCC Coordinator such as APCO.

It is recommended that the STA applicant forwards a final Region 9 application, three months before the expiration date of the STA, to the Subregion chairman or the Region 9 Chairman.

END OF SECTION 6

Section 5.4.5 will yield more accurate results.

Table VI - Effective Radiated Power Limits For Systems Having Less than a 21 mile (34km) Protected Service Area Contour Radius

PROTECTED SERVICE AREA RADIUS mi (km)	BASE STATION ANTENNA HEIGHT (AAT) (feet)										
	50	75	100	150	200	250	300	350	400	450	500
21 (34)	500	500	500	500	500	500	500	500	500	500	500
20 (32)	500	500	500	500	500	500	500	500	500	484	369
19 (29)	500	500	500	500	500	500	500	500	500	465	350
18 (27)	500	500	500	500	500	500	500	473	356	268	203
17 (27)	500	500	500	500	500	500	500	368	278	211	160
16 (26)	500	500	500	500	500	500	402	287	218	166	127
15 (24)	500	500	500	500	500	443	302	217	165	126	97
14 (22)	500	500	500	500	500	323	222	160	123	94	73
13 (21)	500	500	500	500	397	236	164	119	92	71	55
12 (19)	500	500	500	500	290	172	120	88	68	53	41
11 (18)	500	500	500	416	213	126	88	65	51	40	32
10 (16)	500	500	500	304	156	93	65	48	38	31	24
9 (14)	500	500	452	214	110	65	46	34	28	22	18
8 (13)	500	500	294	141	72	43	30	23	19	15	12
7 (11)	500	357	192	93	47	28	20	15	13	10	8
6 (10)	500	221	122	59	30	18	13	10	8	7	6
5 (8) or less	262	115	67	34	18	11	8	6	5	4	4

5.4.5 Coverage and Interference Model to be Used

The signal contour model to be used to determine compliance with the interference protection standards of this Plan is a computer version of the Okumura model prepared by the Florida State Technology Office, and which is available upon request by applicants (see address on page 6-1) or via the Internet at : <http://www.myflorida.com/myflorida/sto/planspolicies/r9webpg.html>

The computer model (referred to as the "Florida Region Interference Program") predicts Protected Service Area Contours, Co-Channel and Offset-Channel Interference Contours, distance and azimuth between stations, and computes the applicable desired-to-undesired signal strength ratios. The computer program may be used on any IBM-compatible personal computer having a draft or better quality printer. The Florida Region Interference Program has been verified to closely correlate with the Motorola version used in the initial channel allotment process (see Section 4.4, page 4-1).

The Florida Region Interference Program was prepared as an interference model only, and *is not intended for the design of systems*. The program does not include many variables which are necessary for the detailed engineering and tailoring of individual system designs.

For the purposes of portable "talkaround-only" systems, the portable radio transmitter parameters shall be utilized in the Florida Region Interference Program to protect existing primary allotments and determine the acceptable area of operation. Until the Florida Region Interference Program is modified to perform this specific analysis in a user-friendly manner, the State of Florida, Bureau of Wireless Communications will perform this function.

5.4.6 Radio Frequency Control Stations

Radio frequency control stations shall operate on a "secondary basis" to primary stations (i.e., base or mobile-relay, mobile, or portable radio). Radio frequency control stations shall employ directional antennas having a front-to-back gain ratio of at least 10 dB. Radio frequency control stations shall be engineered to provide no more than -98 dBm rf signal level at the base station receive antenna terminals. Any approval for operation of RF control stations shall have the stipulation that *these stations are continually contingent upon no substantiated complaints of interference to either present or future systems(secondary basis)*. Upon the Florida Region Committee's confirmation of any such complaints, operation of such RF control stations shall be modified to mitigate the interference or discontinued if a cooperative agreement can not be reached between affected licensees.

Transmit capability from remote stations outside the licensed area should be achieved through other means such as telephone lines, microwave, or other type of radio control.

5.5 Relinquishment of Lower Frequencies

It is anticipated that in all but the most unusual cases, frequencies presently utilized by a licensee will be relinquished for reassignment upon implementation of new systems under this Plan. Agencies shall not be permitted to attempt a direct reassignment of vacated channels, nor to "farm-down" frequencies to other services within their political structure. The need for communications by such an agency may be outweighed by the needs of another entity.

The FCC authorized frequency coordinators will be responsible for reassignment of the channels to the various eligible agencies awaiting channels in lower frequency bands. Normal coordination procedures will be followed with these turned back channels, except that recommendations made by the Region Plan Committee using the Service Category Evaluation Point values defined in this Plan (see Table II, page 4-3) are to be considered. In such cases where specific channels are requested by numerous applicants, the Florida Region Channel Allotment process will be utilized (see Figure 2, page 4-6). In all cases, area of coverage criteria and channel loading criteria as covered in this Plan will be applied.

Table VII- Statewide Emergency/Mutual-Aid Frequencies

<u>FREQUENCY</u>	<u>CTCSS</u>	<u>Elig.</u>	<u>PRIMARY USE</u>
39.10/39.10	156.7	PL	Emergency Management
39.18/39.18	156.7	PL	Emergency Management
45.86/45.86	none	PL	Law Enforcement Emergency
154.265/154.265	none	PF	Fire Mutual Aid (red)
154.280/154.280	none	PF	Fire Mutual Aid (white)
154.295/154.295	none	PF	Fire Mutual Aid (blue)
154.950/154.950	none	PP	Law Enforcement Emergency
155.340/155.340	none	PM	Medical Resource Coord.
155.370/155.370	none	PP	Law Enforcement Intercity
460.275/465.275	none	PP	Law Enforcement Emergency
463.175/463.175	167.9	PM	EMS Medical Resource & Scene Coordination
463.175/468.175	167.9	PM	EMS Medical Coordination
853.3875/808.3875	210.7	GP	Public Safety/Special Emergency Mutual Aid

Elig. - Eligibility

Table VIII - Statewide Highband Law Enforcement Frequency Pairs

154.650/155.190	154.830/155.565	155.730/156.030
154.710/155.250	154.845/155.580	155.790/156.090
154.725/155.310	154.860/155.595	155.850/156.150
154.740/155.415	154.875/155.610	155.910/156.210
154.755/155.430	154.890/155.625	158.730/159.030
154.770/155.490	155.010/155.655	158.790/159.090
154.785/155.520	155.070/155.670	158.850/159.150
154.800/155.535	155.130/155.685	158.910/159.210
154.815/155.550	155.640/155.970	155.700/158.970

As lower band frequencies are vacated, they will be reassigned to conform to the lists of Statewide channels as shown in Table VII and Table VIII in accordance with State of Florida communications plans. In each table, the base station transmit frequency is shown first, followed by the mobile transmit frequency.

5.6 Implementation Schedules

The majority of eligible public safety organizations are either of State and Local government, or else are subject to governmental regulation. The nature of governmental planning and budgeting processes, combined with difficult revenue constraints, prohibits most eligibles from implementing newer technology systems in the normal time required by FCC Rules (8 months for construction of conventional stations, 12 months for trunked stations)³⁶. In most cases, public safety systems will require multi-year phased-implementation schedules requiring three to five times as long to construct as private or commercial systems. Regional, wide-area, and statewide systems will require even longer periods to construct.

In view of these known situations, this Region Plan establishes an extended implementation schedule in accordance with FCC Rules³⁷ which is available to all eligible applicants, *if requested by stating "SLOW GROWTH" on the license application*. A SLOW GROWTH schedule will allow up to five years for completion of station construction. Applicants who request SLOW GROWTH are *not required* to submit the specific items of SLOW GROWTH justification normally required by FCC Rules.³⁸

END OF SECTION 5

³⁶ See FCC Rules § 90.155(a) and § 90.631(e).

³⁷ See FCC Rules § 90.629, § 90.631, and § 90.633.

³⁸ See FCC Rules § 90.629(a).